SEPA

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Semco Bancroft

90-900000015 **€ EPA-DTS**

0006533610

SUBSTANCE:

Benzene, 1,3-Diisocyanatomethyl-CAS#: 26471-62-5

Questions to answer: 1, 2.04. thru 2.09, 2.11 thru 2.16, 3 all, 4.01 thru 4.05, 5 all, 6.05, 7.01, 7.03 thru 7.06, 8.01, 8.05, 8.06, 8.23, 9.01, thru 9.15, 9.19, 9.20, 9.22, 10.01, 10.02, 10.05, 10.06, 10.08 thru 10.16 and 10.23

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

83 0CT 27 AM 9: 13

When	comp]	leted,	send	this	form	to:
		,				

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office

FOI A	<u>vdei</u>	icy use U	11 <u>V</u> :
Date	of	Receipt:	

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Control Number: _____

Docket Number:

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A (GENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	CON	in pleted in response to the <u>Federal Register Notice of $[1]2]2]2]2]2]38$</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No
	ъ.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule NA
		(iii) Trade name as listed in the rule NA
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance
		Name of chemical substance NA
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer 1
	Imp	orter 2
		cessor
		manufacturer reporting for customer who is a processor 4
		processor reporting for customer who is a processor
	r	
[_] ;	- 1ark	(X) this box if you attach a continuation sheet.

1.03 CBI		s the substance you are reporting on have an "x/p" designation associated with it the above-listed <u>Federal</u> <u>Register</u> Notice?
	No	
1.04 CBI	a.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
[_]		Yes
	b.	Check the appropriate box below:
		[] You have chosen to notify your customers of their reporting obligations
		Provide the trade name(s)
		[_] You have chosen to report for your customers
		You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register Notice under which you are reporting.</u>
1.05 <u>CBI</u>	rep	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name.
[_]		de name <u>PE-24A</u>
		the trade name product a mixture? Circle the appropriate response.
	Yes	
	No	
1.06 CBI		ification The person who is responsible for the completion of this form must the certification statement below:
(<u></u>]		ereby certify that, to the best of my knowledge and belief, all information ered on this form is complete and accurate."
	<u>Me</u>	NAME SIGNATURE DATE SIGNED
	<u>He</u>	alth & Safety Manager (818) 240 - 2060 TITLE TELEPHONE NO.
[_] !	lark	(X) this box if you attach a continuation sheet.

<u>CBI</u>	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.			
	"I hereby certify that, to information which I have no to EPA within the past 3 ye period specified in the rul	t included in ars and is cu	n this CAIR Reporting Fo	orm has been submitted
	NA NAME		NA NA	NANA
	NAME		SIGNATURE	DATE SIGNED
	NA TITLE	(TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> [_]	CBI Certification If you certify that the following states those confidentiality claims. "My company has taken measurand it will continue to take been, reasonably ascertainal using legitimate means (other a judicial or quasi-judicial information is not publicly would cause substantial harm.	statements tres which you heres to protect these measured by other than discolurous available el	t the confidentiality of res; the information is persons (other than govery based on a showing without my company's of sewhere; and disclosure	of the information, not, and has not ernment bodies) by of special need in onsent; the
	NA		NA	NA
	NAME		SIGNATURE	DATE SIGNED
	NA TITLE	(TELEPHONE NO.	

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [S]E]M]C]O]]B]A]N]C]R]O]F]T]]]]]]]]]]]]]]]
[_]	Address [R]0]C]K]H]I]L]L]]R]0]A]D]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[C]H]E]R]R]Y]]H]I]L]L]]]]]]]]]]]]]]]]]]]]]]]]]
	$\begin{bmatrix} \boxed{N} \end{bmatrix} \boxed{J} $ $\begin{bmatrix} \boxed{0} \end{bmatrix} \boxed{8} \boxed{0} \boxed{0} \boxed{3} \boxed{3} \boxed{[]] \boxed{]} \boxed{]}$ State
	Dun & Bradstreet Number $\dots [0]0]-[8]2]3]-[7]5]3]9]$
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code $[5]$ $[5]$ $[6]$
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [PRODUCTS] RESEARCHE
[_]	Address [5]4]3]0]]]S]A]N]]]F]E]R]N]A]N]D]0]]R]0]A]D]]]]]
	[<u>G]L]E]N]D]A]L]E]</u>]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	$\begin{bmatrix} \overline{C} \end{bmatrix} \overline{A}$ $\begin{bmatrix} \overline{9} \end{bmatrix} \overline{1} \overline{2} \overline{1} \overline{0} \overline{3} \overline{3} \overline{1} - [\underline{} \end{bmatrix} \overline{} \phantom$
	Dun & Bradstreet Number
	Employer ID Number
[-]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u> [_]	Name [N]A]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[_]_] [_]_][_]_]_]_] State
1.12	Technical Contact
<u>CBI</u>	Name [K]A]M]A]L]]A]B]D]E]L]M]E]S]S]I]H]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
1.13	This reporting year is from
[_]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
<u>CBI</u>	Name of Seller [N]A]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_][_]]_]_]_]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [N]A]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]]][_]]]]]]]]]]]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	ark (X) this box if you attach a continuation sheet.

lassification	Quantity
anufactured	NA NA
nported	NA NA
rocessed (include quantity repackaged)	2.9
that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	NA
For on-site use or processing	NA
For direct commercial distribution (including export)	NA
In storage at the end of the reporting year	NA
that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	NA
Processed as a reactant (chemical producer)	NA
Processed as a formulation component (mixture producer)	NA
Processed as an article component (article producer)	NA
Repackaged (including export)	2.9
In storage at the end of the reporting year	-0-

or ch	<pre>xture If the listed subs a component of a mixture, emical. (If the mixture con ch component chemical for a</pre>	provide the following informposition is variable, repo	pired to report is a mixture rmation for each component ort an average percentage of
<u></u>	Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)
	NA	NA NA	NA
	NA	NA /	NA
***************************************	NA	NA	NA NA
	NA	. NA	NA NA
_	NA	NA	NA NA
	<u>NA</u>	NA	Total NA 100%
r			

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility man or processed during the 3 corporate fiscal years preceding the redescending order.	ufactured, impo porting year in	rted,
<u>CBI</u>			
[_]	Year ending] 7 Year
	Quantity manufactured	NA	kg
	Quantity imported	NA	kg
	Quantity processed	2.91	kg
	Year ending	$\cdots \begin{bmatrix} \boxed{1} \end{bmatrix} \boxed{0} \end{bmatrix} \begin{bmatrix} \boxed{8} \end{bmatrix}$	3 <u>] 6</u>] Year
	Quantity manufactured	NA	kg
	Quantity imported		
	Quantity processed	-0-	_ kg
	Year ending] <u>5</u>] Year
	Quantity manufactured	NA	_ kg
	Quantity imported	NA	_ kg
	Quantity processed	-0-	_ kg
2.05 CBI	Specify the manner in which you manufactured the listed substance appropriate process types.	. Circle all	***************************************
[_]	Continuous process		1
	Semicontinuous process		
	Batch process		
			,
	τ		
[_]	Mark (X) this box if you attach a continuation sheet.		

2.06 CBI					
[_]	Continuous process	••••••			
	Semicontinuous process	;			
	Batch process	•••••		(
2.07 CBI	State your facility's substance. (If you ar question.)	name-plate capacity fe a batch manufacture	for manufacturing or preer or batch processor,	ocessing the listed do not answer this	
[_]	Manufacturing capacity	• • • • • • • • • • • • • • • • • • • •	·····	NA kg/yı	
	Processing capacity .	•••••	·····	NA kg/yı	
2.08 CBI	If you intend to incre manufactured, imported year, estimate the inc volume.	, or processed at any	v time after your curre	nt corporate fiscal	
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)	
	Amount of increase	NA NA	NA NA	NA	
	Amount of decrease	NA	NA NA	NA	
	r				
[_]	Mark (X) this box if you	ou attach a continuat:	ion sheet.		

	substance durin	e, specify the number of days you manufactured of the reporting year. Also specify the average s type was operated. (If only one or two operated)	number of h	ours per
<u>CBI</u>	÷		Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	<u>NA</u>	NA
		Processed	2	1
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	NA	NA
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	<u>NA</u>	<u>NA</u>
2.10 <u>CBI</u> []	substance that chemical. Maximum daily in	um daily inventory and average monthly inventory was stored on-site during the reporting year in new new and the reporting year in inventory	the form of	
		NOT REQUIRED		
[_]	Mark (X) this be	ox if you attach a continuation sheet.		

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By products, Coproducts, or Impurities
NA	NA	NA	NA	NA
NA	NA_	NA	NA	NA
NA	NA	NA	<u> </u>	NA
NA	NA NA	NA	NA	NA NA
NA	NA	NA	NA	NA
NA	NA	NA NA	NA	NA
	lowing codes to designa	te byproduct, copro	oduct, or impurity	y:
Use the fol B = Byprodu C = Coprodu I = Impurit	ct ct	te byproduct, copro	oduct, or impurity	y:
B = Byprodu C = Coprodu	ct ct	te byproduct, copro	oduct, or impurity	y:
B = Byprodu C = Coprodu	ct ct	te byproduct, copro	oduct, or impurity	y:

 $[\underline{ }]$ Mark (X) this box if you attach a continuation sheet.

	a.	b. % of Quantity	c.	d.
	Product Types ¹	Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-U
	T	100	0	I
	NA	NA	NA	NA NA
	NA	NA	NA NA	NA
_	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
]	Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Frictio agent E = Surfactant/Emulsi	t t/Sequestrant t/Degreaser n modifier/Antiwear	<pre>0 = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)</pre>	n/Plating chemicaditives als and additives chemicals l chemicals s and additives additives fier
i	<pre>J = Flame retardant C = Coating/Binder/Add Jse the following cod</pre>	es to designate the	type of end-users:	

]	import, or process usi corporate fiscal year. import, or process for substance used during used captively on-site types of end-users for explanation and an example.	For each use, spect each use as a percetthe reporting year. as a percentage of each product type.	ify the quantity you entage of the total vo Also list the quanti the value listed unde	expect to manufact lume of listed ty of listed subst r column b., and t
	a.	b.	c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Use
	.L	100	0	I
	NA	NA	NA	NA
	NA NA	NA	NA	NA
	NA	NA	NA	NA
	NA NA	NA	NA	NA
	NA	NA	NA	NA
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and additives		L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modif X = Other (specify)	rant/Ink and adding rographic chemical in/Plating chemical ditives als and additives chemicals chemicals and additives additives fier	
	I = Industrial CM = Commercial	CS = Cons H = Othe	umer r (specify)	

Product Type ¹ NA NA NA	Final Product's Physical Form NA NA	Composition of Listed Substance in Final Product	Type of End-Users ³		
NA		NA NA			
	NA		NA		
NA		NA	NA		
	NA	NA	NA		
NA	NA NA	NA ′	NA NA		
NA	NA	NA	NA		
D = Inhibitor/Stabi Antioxidant E = Analytical reag F = Chelator/Coagul E = Cleanser/Deterg H = Lubricant/Frict agent E = Surfactant/Emul E = Flame retardant E = Coating/Binder/ Use the following of	gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear lsifier c /Adhesive and additive	and additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modifies S = Other (specify) final product's physic	n/Plating chemicals ditives als and additives chemicals chemicals s and additives additives fier		
B = Liquid	F3 = Gra	nules			
•					
	H = Oth	er (specify)			
	A = Solvent B = Synthetic react C = Catalyst/Initia Sensitizer D = Inhibitor/Stabi Antioxidant E = Analytical reag F = Chelator/Coagul G = Cleanser/Deterg H = Lubricant/Frict agent I = Surfactant/Emul J = Flame retardant K = Coating/Binder/ Use the following of A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder	A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and additive Use the following codes to designate the A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder Use the following codes to designate the I = Industrial C S = Con	B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent C = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear I = Surfactant/Emulsifier U = Flame retardant X = Coating/Binder/Adhesive and additives X = Cas B = Liquid C = Aqueous solution C = Aqueous solution C = Paste C = Slurry F = Other C = Consumer M = Plasticizer N = Dye/Pigment/Color O = Photographic/Repring and additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a very and additives V = Metal alloy and a very and additives V = Coating/Binder/Adhesive and additives V = Coating/Binder/Adhesive and additives V = Other (specify) C = Crystalline solid C = Aqueous solution C = Paste C = Gel C = Slurry C = Consumer C = Industrial C = Consumer		

	Truck	NA	• • • • • • • • • • • • • • • • • • • •	1		
	Raile	arNA	• • • • • • • • • • • • • • • • • • • •			
	Barge	e, Vessel ^{NA}				
	Pipe	ine	• • • • • • • • • • • • •	4		
	Plane			5		
	Other	(specify) NA	• • • • • • • • • • • • • • • • • • • •	6		
2.16 CBI	or proof er	omer Use Estimate the quantity of the listed substance us repared by your customers during the reporting year for use and use listed (i-iv).	ed by your cu under each ca	stomers		
		ory of End Use				
	i.	Industrial Products				
		Chemical or mixture				
		Article	NA	kg/yr		
	ii.	Commercial Products				
		Chemical or mixture	NA	kg/yr		
		Article	NA	kg/yr		
	iii.	Consumer Description				
	111.	Consumer Products				
	111.	Chemical or mixture	NA	kg/yr		
	111.			kg/yr kg/yr		
	iv.	Chemical or mixture				
		Chemical or mixture	NA			
		Chemical or mixture	NA NA	kg/yr		
		Chemical or mixture	NA NA NA	kg/yr kg/yr		
	iv.	Chemical or mixture	NA NA NA	kg/yr kg/yr		

SECTION	3	PROCESSOR	PAU	MATERIAL	IDENTIFICATION
SPOTTON	J	LVACESSAV	LVV	UNITUTAL	IDENTILICATION

PART	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	es are treated a	s purchases.
·	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	NA NA	NA
	The listed substance was transferred from a different company site.	NA	NA
	The listed substance was purchased directly from a manufacturer or importer.	2.91	9.00
	The listed substance was purchased from a distributor or repackager.	NA NA	NA
	The listed substance was purchased from a mixture producer.	NA	NA
3.02 CBI	Circle all applicable modes of transportation used to your facility.	deliver the lis	ted substance to
	Truck :	• • • • • • • • • • • • • • • • • • • •	(1
	Railcar	• • • • • • • • • • • • • • • • • • • •	2
	Barge, Vessel		3
	Pipeline		4
	Plane		5
	Other (specify)	• • • • • • • • • • • • • • • • • •	6
	τ		
	Mark (X) this box if you attach a continuation sheet.		

CBI	a.	Circle all applicable containers used to transport the listed substafacility.	ince to	your
[_]		Bags	• • • • • •	
		Boxes		2
	-	Free standing tank cylinders	• • • • • •	3
		Tank rail cars		
		Hopper cars		5
		Tank trucks		
		Hopper trucks		7
		Drums		8
		Pipeline		
		Other (specify) 5 gallon Pail		(10
	ь.	If the listed substance is transported in pressurized tank cylinders cars, or tank trucks, state the pressure of the tanks.		
		Tank cylinders	NA	mmHg
		Tank rail cars	NA	mmHg
				<u> </u>
		Tank trucks	NA	mmHg
		Tank trucks	NA	_ mmHg
		Tank trucks	NA	mmHg
		Tank trucks	NA	mmHg
		Tank trucks	NA	mmHg
		Tank trucks	NA	mmHg
		Tank trucks	NA	mmHg
		Tank trucks .	NA	mmHg
		Tank trucks	NA	mmHg
	r	Tank trucks	NA	mmHg
	τ	Tank trucks	NA	mmHg

3.04 <u>CBI</u> []	of the mixture, the name	me of its supplier(s ition by weight of th	form of a mixture, list the or manufacturer(s), an est ne listed substance in the morting year.	imate of the
	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	NA	NA NA	NA NA	NA
	NA	NA	NA .	NA
	NA	NA	NA NA	NA
	NA	NA NA	NA NA	NA
	•			

 $[\]$ Mark (X) this box if you attach a continuation sheet.

3.05 CBI	reporting year in the for	e listed substance used as a r rm of a class I chemical, clas by weight, of the listed subs	ss II chemical, or polymer, and stance.
·—·		Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision</pre>
	Class I chemical	2.91	10 - 50%
		NA	NA
		NA	NA NA
	Class II chemical	NA NA	NA.
		NA	NA
		NA	NA
	Polymer	NA	NA
		NA	NA NA
		NA	NA
	•		
	τ		

NECTION A PRINICAL/URBBILDAL FROEDRIED	SECTION 4	4	PHYSTCAL	./CHEMICAL	PROPERTIES
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General Ins	truc	tions	٠
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If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

PART	A PHYSICAL/CHEMICAL DAT	TA SUMMARY		
4.01 CBI	Specify the percent pur substance as it is man substance in the final import the substance,	ufactured, imported, or product form for manuf	r processed. Measure facturing activities, a	the purity of the at the time you
[_]		Manufacture	Import	Process
	Technical grade #1	NA % purity	NA % purity	% purity
	Technical grade #2	NA % purity	NA_% purity	NA % purity
	¹ Major = Greatest quan		ce manufactured, import	ted or processed.
4.02		tity of listed substance tly updated Material Sary formulation contains	afety Data Sheet (MSDS) ing the listed substance	ted or processed.) for the listed ce. If you possessurce, submit your
4.02	1 Major = Greatest quan Submit your most recen substance, and for ever an MSDS that you developersion. Indicate whe	tity of listed substance tly updated Material Sary formulation contains oped and an MSDS development at least one MSDS	afety Data Sheet (MSDS) ing the listed substance oped by a different south	ted or processed.) for the listed ce. If you possessurce, submit your circling the
4.02	1 Major = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.	tity of listed substance tly updated Material Sary formulation contains oped and an MSDS develo	afety Data Sheet (MSDS) ing the listed substance oped by a different south has been submitted by	for the listed ce. If you possessurce, submit your circling the
4.02	1 Major = Greatest quan Submit your most recen substance, and for ever an MSDS that you developersion. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Sa ry formulation contains oped and an MSDS develo ther at least one MSDS	afety Data Sheet (MSDS) ing the listed substance oped by a different sou has been submitted by	ted or processed.) for the listed ce. If you possessurce, submit your circling the
4.02	1 Major = Greatest quan Submit your most recensubstance, and for everan MSDS that you developersion. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Sa ry formulation contains oped and an MSDS develo ther at least one MSDS	afety Data Sheet (MSDS) ing the listed substance oped by a different sou has been submitted by	for the listed ce. If you possessurce, submit your circling the

SENT BY: I.P. INC.	ELKTON,MD. ;	8-31-89 2:40	<u>2</u> 694 \$0 0 :-6 3		91→ 818 5 • .,	348 9473 ;# 2
	PRODUCT	₹₽ - 2 4	Α	1 4	raid teach Traid	
SECTION!					Secretican f	1 1 1 1
MEDITACTIONS	HAIGIBBUB ACI NOBIO	1			FMEHISFACT TELE MANUFACTURER	
TPT A DIVISI	on of PMC. I	DE:	1001		201 392	4800
505 Blue Ball	Road, Elkton	, Maryland	1921 [# <u>0</u> #/8/	مَوْنَا لِياً	•	
Reactive Isoc			П	Prop	rietary	
SECTION II - CHEMICA	L AND PHYSICAL	PROPERTIES	CHEMICAL		PHYSIC	CAL
HAZARDOUS DECOMPOSITE	ONPRODUCTS			L	Liquid	
Oxides of Car	bon and Nitro	gen		-	Sharp Pun	gent
INCOMPATIBILITY IKEEPAY	AY FROM	Audana Cha	one Acide and F		TOI Door	
1 */ 1		s, Amines, Str	ong Acids and E	303=3	ज Liquid	
BO/20 2,4/2,	5 Toluene dii:	socyanate 10-	50%	ſ	CLEAR LIQ	
CAS 026471-6	2-5				SPECIFIC GRAVITY	1.23 0 25°C
					BOILING PT.	>203 -5
SECTION III - FIRE AN SPECIAL FIRE FIGHTING PRO	ACEDURES		FLASH POINT IMETHOD	USEDI	:3	>398
i equipped to	nrevent breat	ning of Vapors	7:51 <u>7:50</u> °C 730	00 1	MELTING PT.	NDA 19
or products	of combustion ed breathing	. Must wear	FLAMMABLE LIMITS "		14	NDA 10
[24]		appara ess.	27 LOWER NDA UPPE	NDA	SOLUBILITY IN WATER	
UNUSUAL FIRE AND EXPLO	re contaminat	ion in closed	MORYCHEMICAL X	co,	<u> </u>	Reacts
containers.	Reaction wit	h moisture wi	XWATERSPRAY X	FOAM	15 % VOLATILE	
generate CU ₂ container.	which may ru	pture die	TWATERFOG SAN	D EARTH	EVAP. RATE	NOA
41						NDA
SECTION IV - HEALT					VAPOR PRESSURE	0.011
2.4 Toluene	Diisocyanate	OSHA TWA D	.005 PPM 6.02 PPM	1	VAPOR DENSITY	
1291 PAC COA DA C	3	3171	U . U P P P P P P P P P P P P P P P P P	lay	19 (AIR = 1)	
cause head	iaches , nau:	iea, cougning. result in res	atory tract. I shortness of i piratory distri	ess.	pH AS IS	NDA NDA
TOXICOLOGICAL PROPER	TIES	-99-weda abda	AM WACDIFATORY	1	20 PH ()	
reaction.	Persons with	known respirat	ory allergies	3110010	STRONG ACID	
EMERGENCY FIRST AID P	f eve contact	. flush with p	lenty of water	for	STRONG BASE	XX
DE EYES At least	15 minutes.	Call a bulanci	G.11.		UNSTABLE	Ţ
Mas 22 SKIN CONTACT tam	n thoroughly	with soap and no & discard o	water. Remove	curi-	VISCOSITY "	<100 I
Was	h clothina be	fore reuse.		1	AT 100 °F	100 OR > 2 NDA
Table 1 and 1 and 1	aug danm cont	aminated area	to fresh air e	nvir-	23 Viscosit	
onment. Ca -give artif	ii a physicia ical respirat	ion. Give oxy	is not breathi ygen.			cp\$
35 IF SWALLOWED	11 a mhveidia	n immediately.			4,300	
		NDA = NO DATA AV		< - LESS	TMAN	> - MORE THAN
NA - NOT APPLICA	ANLE	NUM - NU UMINAT				

11		
黑	#	

MATERIAL SAFETY DATA SHEET

PRODUCT

PE-24A

ECTION V - SPECIAL PROTECTION INFORMATION	
VENTILATION TYPE REQUIRED (COCAL, MECHAPIICAL, SPECIAL)	PHOTEL TO FORUME?
Mechanical general/local exhaust ventilation to control	Impervious rubber or
vapor or mists below maximum exposure limits.	TE /E PRINTE! TION
	Safety gongles and face
TH RESPINATORY PROTECTION (SPECIFY TYPE)	hield to avoid splashing on
HEAT IN THE TELEVISION OF THE	OTHER PROTECTIVE EQUIPMETS
us arracus announced hyperthing annapatus.	Respirator that provides fresh air and splash apron
Use NIOSH approved breathing apparatus.	to these att and shigh shigh
SECTION VI - HANDLING OF SPILLS OF LEAKS	
PROCEDURES FOR CLEAN-UP	t material such as clay or
PROCEDURES FOR CLEAN-UP With adequate ventilation, cover with an inert absorben vermiculite, transfer to a metal container. Saturate w	ith wate but DO NOT SEAL THE
container (CO2will be generated). Wash the area with w	ater containing 50% ammonta
and detergent. Wear respirator and other protective eq	uinment for protection of
and detergent. Wear respire tor and other processive of	/
eves and skin during cleanup.	
Dispose of consistent with Federal, State, and local re	gulations.
lana.	
43	
SECTION VII — SPECIAL PRECAUTIONS [PRECAUTIONS TO BE TAKEN IN MANDLING AND STORAGE	
PRECAUTIONS TO BE TAKEN IN MANUCING AND BIOMAGE	star and generate COo which
Avoid contact with moisture. Isocyanates react with wa	oF (16 and 30 C).
may rupture sealed containers. Store between 60 and 85	, , , , , , , , , , , , , , , , , , , ,
SECTION VIII - TRANSPORTATION DATA	
THE A A T PROPER SHIPPING NAME	
UNREGULATED X 47 NA	
U.S. D.C.T. HAZARD CLASS	TO NUMBER
REGULATED AB NA	NA et
LABELIS REQUIRED	
TRANSPORTATION SO SI NA	
INFORMATION SREIGHT CLASSIFICATION	
Desin Compound Class # 55 Item #	46030
SPECIAL TRANSPORTATION NOTES	
1-(800) 424-8300 S3 NONE	
	•
SECTION IX — COMMENTS	ALACARA AR ARMOMETTREE THE
THE FOAM PRODUCED IS AN ORGANIC AND MUST BE CON	SIDERED AS COMBUSTIBLE. THE
NOTE: FOAM MUST NOT BE LEFT EXPOSED OR UNPROTECTED.	SATELD THE FUAR FROM HEAT AND
SPARKS WITH A THERMAL BARRIER.	
A lul	
(WIII)	
Sales S	ervice Manager
SIGNATURE CHARGES AT ALBORE	
REVISION DATE 8/31/89 SENT TO ATTN:	DATE
SUPERSEDES 6/16/83	
aurenaeues	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.									
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • •		• • • • • • • • • • •	• • • • • • • • • • • • •	1			
	No	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	••••••	(2			
4.04 <u>CBI</u> [_]	For each activity that used corresponding to each photostate. Physical states the time you import or be manufacturing, storage, final state of the production.	nysical state of s for importing pegin to process disposal and to	f the and p s the	listed subs rocessing a listed subs	stance durin activities a stance. Phy	g the activit re determined sical states	y lat for			
				Phy	sical State					
	Activity	Sol	lid	Slurry	Liquid	Liquified Gas	Gas			
	Manufacture	1	l	2	3	4	5			
	Import	1	l	2	3	4	5			
	Process	1	Ĺ	2	3	4	5			
	Store	1	l	2	3	4	5			

Dispose

Transport .

	rk (X) this box if you attach a continuation sheet.
--	---

Physical State	l -	Manufacture	Import	Process	Store	Dispose	Transpor
Dust	<1 micron	NA	<u>NA</u>	NA	NA_	<u>NA</u>	NA
	1 to <5 microns	NA	<u>NA</u>	NA	<u>NA</u>	NA	NA
	5 to <10 microns	NA	NA	<u>NA</u>	<u>NA</u>	NA	NA
Powder	<1 micron	NA	<u>NA</u>	NA	NA_	NA	NA
	1 to <5 microns	NA	NA	<u>NA</u>	NA_	<u>NA</u>	NA
	5 to <10 microns	NA	<u>NA</u>	NA	<u>NA</u>	NA	NA
Fiber	<1 micron	NA	NA	NA	<u>NA</u>	NA	NA
	1 to <5 microns	NA	NA	NA	NA_	NA	NA
	5 to <10 microns	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	NA	NA
Aerosol	<1 micron	NA	NA	NA	NA	NA	NA
	1 to <5 microns	NA	NA	NA	NA_	NA	NA
	5 to <10 microns	NA	NA	NA	NA_	NA	NA

ART A RATE CONSTANTS AND TRANSFORMATION PRODUCTS									
.01	Ind	licate the rate constants for the following tran	sforma	tion proces	sses.				
	a.	Photolysis:							
		Absorption spectrum coefficient (peak)	UK	_ (1/M cm)	at _	UK	nm		
		Reaction quantum yield, 6	UK		at _	UK	nm		
		Direct photolysis rate constant, k_p , at	UK	1/hr		UK	latitude		
	b.	Oxidation constants at 25°C:	,						
		For ¹ 0 ₂ (singlet oxygen), k _{ox}		UK			1/M h		
		For RO ₂ (peroxy radical), k _{ox}		UK			1/M h		
	c.	Five-day biochemical oxygen demand, BOD ₅		UK			mg/l		
	d.	Biotransformation rate constant:							
		For bacterial transformation in water, k _b		UK			1/hr		
		Specify culture		UK					
	e.	Hydrolysis rate constants:							
		For base-promoted process, k _B		UK			1/M h		
		For acid-promoted process, k,		UK			1/M h		
		For neutral process, k _N		UK			1/hr		
	f.	Chemical reduction rate (specify conditions)		UK					
				UK					
	g.	Other (such as spontaneous degradation)		UK					
				UK					

[_]	Mark (X)	this	box if	you	attach	a	continuation	sheet.	
·—·	` '			•					

5.02	a.	Specify the half-life of the	listed subst	ance in the	followin	g med	ia.
		<u>Media</u>		Half-life	(specif	y uni	ts)
	•	Groundwater			UK		
		Atmosphere			UK		
		Surface water			UK		
		Soil	4		UK		
	b.	Identify the listed substance life greater than 24 hours.	e's known tra	nsformation	products	that	have a half-
		CAS No.	Name	Half-li (specify			Media
		UK	UK	UK		in _	UK
		UK	UK	UK		in _	UK
		<u>UK</u>	UK	<u>UK</u>		in _	UK
		UK	UK	UK		in _	<u>IIK</u>
5.03		cify the octanol-water partition of calculation or determin		•			at 25°0
5.04	Spe	cify the soil-water partition	coefficient,	K _d	UK		at 25°C
	Soi	l type	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••	UK		
5.05		cify the organic carbon-water fficient, K _{oc}			UK		at 25°C
5.06	Spe	cify the Henry's Law Constant,	н		UK		atm-m³/mole
[_]	Mari	c (X) this box if you attach a	continuation	n sheet.			

Bioconcentration Factor	Species	Test ¹
UK	UK	UK
<u>UK</u>	UK	ШК
UK	UK	UK
¹ Use the following codes to des	ignate the type of test:	
F = Flowthrough S = Static	,	
•		
¢		

	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)	NOT REQUIR	ED
.05	Substitutes List all known comme for the listed substance and state feasible substitute is one which is	the cost of each substitute	e. A commercially
<u> </u>		the cost of each substitute economically and technolog	e. A commercially gically feasible to a
<u>I</u>	for the listed substance and state feasible substitute is one which is in your current operation, and which	the cost of each substitute economically and technolog	e. A commercially gically feasible to
<u>I</u>	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitute economically and technolog	e. A commercially gically feasible to work to with comparable
.05 <u>31</u>	for the listed substance and state feasible substitute is one which is in your current operation, and whice performance in its end uses. Substitute	the cost of each substitute economically and technolog	e. A commercially gically feasible to use the comparable Cost (\$/kg)
<u> 31</u>	for the listed substance and state feasible substitute is one which is in your current operation, and whice performance in its end uses. Substitute UK	the cost of each substitute economically and technolog	e. A commercially gically feasible to set with comparable Cost (\$/kg) UK
<u>I</u>	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute UK UK	the cost of each substitute economically and technolog	e. A commercially gically feasible to set with comparable Cost (\$/kg) UK UK
<u>I</u>	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute UK UK	the cost of each substitute economically and technolog	e. A commercially gically feasible to ct with comparable Cost (\$/kg) UK UK
<u>I</u>	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute UK UK	the cost of each substitute economically and technolog	e. A commercially gically feasible to ct with comparable Cost (\$/kg) UK UK

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

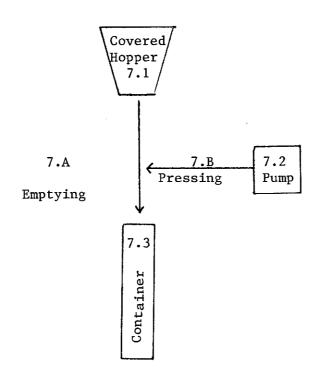
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Process type Packaging

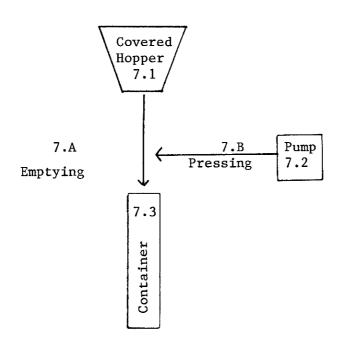


|--|

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type Packaging



[] Mark (X) this box if you attach a continuation sheet.

]	Process type Packaging					
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition	
	7.1	Hopper	Ambient	Atmospheric	Steel	
	7.2	Pump	Ambient	Atmospheric	<u>Steel</u>	
		Container	Ambient	<u>Atmospher</u> ic	<u>Polyethylen</u>	
	NA	NA	NA	<u>NA</u>	NA	
	<u>NA</u>	NA	<u>NA</u>	NA	NA	
	NA	NA	<u>NA</u>	NA	<u>NA</u>	
	<u>NA</u>	NA	<u>NA</u>	NA	<u>NA</u>	
	NA	NA NA	<u>NA</u>	NA	NA	
	<u>NA</u>	<u>NA</u>	NA	NA	NA	
	NA	NA	<u>NA</u>	NA	NA	

[-]	Process type	···· Packaging		
_	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	7.A	Storage Hopper	OL	2.91
	7.B	Compressor Pump		
	NA	NA NA	NA NA	NA
	NA	NA	<u> </u>	NA
	NA	NA	NA	NA
	NA	NA NA	. NA	NA
	NA	NA	. NA	NA
	NA	NA	NA NA	NA
	GC = Gas (conden GU = Gas (uncondents) SO = Solid SY = Sludge or s AL = Aqueous liquor OL = Organic liquor	uid	and pressure) re and pressure)	
	¢			

_]	Process type						
	a.	b.	c.	d.	e.		
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)		
	7.A	Toluene Diisocyanate	100 (W)	NA	NA		
	7.B	Air	100 (W)	NA	NA		
		NA NA	<u>NA</u>	, NA	NA		
		NA	NA	NA	NA		
		<u>NA</u>	NA	NA	NA		
		NA	NA	NA	NA.		
		NA	NA	NA	NA		
		NA	NA	NA	NA		
		NA	NA	NA	NA		
		NA	NA	NA NA	NA		
		NA	NA	NA	NA		
	•	NA NA	NA	NA	NA		
.06	continued b	elow					
	τ.						

7.06 (continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	NA	NA
	NA	NA
	NA	NA NA
2	NA NA	NA
	NA	NA
	NA	NA
3	NA	NA
	<u>NA</u>	NA
	NA	NA
4	NA	NA
	NA	NA
•	NA NA	NA
5	NA	NA
	NA	NA
	NA	NA

[_]	Mark (X)	this box i	f you attach a	continuation sheet	

²

A = Analytical result

E = Engineering judgement/calculation

³Use the following codes to designate how the concentration was measured:

v = Volume

W = Weight

8.01 <u>CBI</u>	In accor	rdance with escribes the	the instrue treatment	ctions, prov process use	ide a d for	residual treatment block flow dia residuals identified in question	gram 7.01
[_]	Process	type	· • • · <u>. </u>		NA		
	•						
						,	
	•						
	τ						

CBI	process	type, photo	copy this qu	estion and co	low diagram is mplete it sepa r explanation a	rately for ea	ch process
<u></u> 1	Process	type	• • •	-			
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (% or ppm)
	NA	NA	NA NA	NA NA	NA	NA	NA
			NA	NA	NA	NA	NA
			NA	NA NA	NA	NA	NA
			<u>NA</u>	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA
			NA	NA	NA	<u>NA</u>	NA
			NA	NA	NA	NA	NA
			<u>NA</u>	NA	NA	NA	NA
	<u>NA</u>	NA	NA	NA	NA	NA	NA
	•	•	NA	NA	NA	NA	NA
			<u>NA</u>	NA NA	NA	NA	NA
			NA	NA	NA	NA	NA
	<u>NA</u> .	NA	<u>NA</u>	NA	NA	NA	NA
			NA	NA	NA	NA	NA
			<u>NA</u>	NA	NA	NA	NA
	τ		NA	NA	NA	NA	NA
.05	continu	ed below					

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	NA	NA
	NA	NA
	NA	NA
2	NA	NA
	NA NA	NA
	NA	NA
3	NA	NA
	NA	NA
	NA	NA
4	NA NA	NA NA
	NA	<u>NA</u>
•	NA NA	<u>NA</u>
5	NA	NA NA
	NA	NA
	NA	NA NA
4Use the following codes to A = Analytical result E = Engineering judgement/	designate how the concentrati	on was determined:
[_] Mark (X) this box if you at	tach a continuation sheet.	

Ω	05	(continued)	ì
σ.	U.S	(continued)	ł

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit (± ug/l)
1	NA	NA
2	NA NA	NA NA
3	NA	NA
	NA	NA
5	NA	NA
_6	NA NA	NA

[_] Mark (X) this box if you attach a continuation sheet.

CBI											
[_]	Process	s type	•••••						· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	a.	ь.		c.	_	d.	_	е		f. Costs for	g.
	Stream ID Code	Wast Descrip Code	tion Me	the Code	d Qua	esidu antit kg/yr	ies		gement dual (%) Off-Site	Off-Site Management (per kg)	Changes in Management Methods
	NA	NA		NA		NA		NA	NA	<u>NA</u>	NA
				NA		NA		NA	NA	NA	NA
				NA		NA		<u>NA</u>	NA	NA	NA
				NA		NA		NA	NA	NA	NA
	NA	NA		NA		NA		NA	NA	NA	NA
				NA		NA		NA	NA	NA	NA
				NA		NA		NA	NA	NA	NA
				NA		NA		NA	NA	NA	NA
	NA	NA		NA		NA		NA	<u> </u>	NA	NA
				NA	· ·	NA		<u>NA</u>	NA	NA	NA
		•		NA		NA		NA	NA	NA	NA
			and the second second	NA		NA_		NA	NA	NA	NA
	NA	NA		NA		NA		NA	NA	NA	NA
				NA		NA		NA	NA	NA	NA
				NA		NA	<u> </u>	NA	NA	<u>NA</u>	NA
		,		NA		NA		NA	NA	NA	NA
			-							descriptions	
	use t	ne codes	hroviasa	111	PVIIIOI	0-2		deg18mate			

8.22 CBI	Describe the (by capacity) your process l	incinerator	s that are us	sed on-site	to burn the r	esiduals id	
[_]		Cł	oustion namber nture (°C)	Temp	tion of perature point or	In Co	ence Time mbustion (seconds)
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary
	1		A-1		•		
	2						
	3			-			
	by circl	ling the app	propriate resp	oonse.	s been, submit		_
		· • • • • • • • • • • • • • • • • • • •	NOT RE	EQUIRED			_
	NO	• • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • •	•••••	
(<u></u>]	Incinerator	•	Air Po	ollution Device	-	Types Emission Avail	ns Data
	1		<u> </u>	IA		NA	<u> </u>
	2			1 <u>A</u>		N.F.	.
	3		1	NA		N.A	<u> </u>
	by circl	ing the app	ropriate resp	onse.	s been submit		·
					• • • • • • • • • • • •		
	¹ Use the follo				 lution contro		
	S = Scrubber E = Electrost O = Other (sp	atic precip		r in parent	hesis)		
[_]	Mark (X) this	box if you	attach a cont	inuation sh	eet.		

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01	Mark (X) the appropriate column to indicate whether your company maintains records on
	the following data elements for hourly and salaried workers. Specify for each data
	element the year in which you began maintaining records and the number of years the
CBI	records for that data element are maintained. (Refer to the instructions for further
	explanation and an example.)
[_]	

<u> </u>	Data are Ma: Hourly	intained for Salaried	Year in Which Data Collection	Number of Years Records
Data Element	Workers	Workers	Began	Are Maintained
Date of hire	X	X	1989	Indefinitely
Age at hire	X	<u> </u>	1989	Indefinitely
Work history of individual before employment at your facility	Х	X	1989	Indefinitely
•	<u> </u>			
Sex	<u> </u>	X	1989	Indefinitely
Race	X	<u> </u>	1989	Indefinitely
Job titles	X	X	1989	<u>Indefinitely</u>
Start date for each job title	X	X	1989	Indefinitely
End date for each job title	<u>X</u>	<u> </u>	1989	<u>Indefinitely</u>
Work area industrial hygiene monitoring data	X	X	1989	<u>Indefinitely</u>
Personal employee monitoring data	X	X	1989	Indefinitely
Employee medical history	X	<u> </u>	1989	Indefinitely
Employee smoking history	NA	NA	NA	NA
Accident history	X		1989	Indefinitely
Retirement date	X	X	1989	Indefinitely
Termination date	X	<u> </u>	1989	Indefinitely
Vital status of retirees	NA	NA	NA	NA
Cause of death data	NA	NA	<u>NA</u>	NA

[_]	Mark	(X)	this	box	if	you	attach	а	continuation	sheet.
,	Halk	(4)	tiils	DOX	11	you	attacii	•	Continuation	sneet.

Occess Category Quantity (kg) Workers Worker-Head closed NA NA NA ntrolled Release NA NA NA	Activity Process Category Quantity (kg) Workers Worker-H Manufacture of the listed substance Enclosed NA NA NA NA Controlled Release NA NA NA NA NA Open NA NA NA NA NA Controlled Release NA NA NA NA Open NA NA NA NA On-site use as nonreactant Enclosed 2.91 2 1 Controlled Release NA NA NA NA	Activity Process Category Quantity (kg) Workers Worker-H Manufacture of the listed substance Enclosed NA NA NA NA Open NA NA NA NA NA On-site use as reactant Enclosed NA NA NA NA Open NA NA NA NA NA On-site use as nonreactant Enclosed 2.91 2 1 Controlled Release NA NA NA Open NA NA NA On-site preparation of products Enclosed NA NA NA Open NA NA NA NA	j	a.	b.	c.	đ.	e.
NA	Controlled Release	Controlled Release	<u>A</u>	ctivity	Process Category			Tota Worker-H
In the losed NA NA	Controlled Release NA	Controlled Release NA			Enclosed	NA	NA	NA
NA NA NA NA Introlled Release NA NA NA	On-site use as reactant Enclosed NA NA NA NA Controlled Release NA NA NA NA NA NA On-site use as nonreactant Enclosed 2.91 2 1	On-site use as reactant Enclosed NA	1	1Sted substance	Controlled Release	NA	NA	<u>NA</u>
NA	Controlled Release	Controlled Release			0pen	NA	NA	NA
NA NA NA NA Sclosed 2.91 2 1 atrolled Release NA NA NA en NA NA NA	Controlled Release NA	Controlled Release			Enclosed	NA	<u>NA</u>	NA
2,91 2 1 2 1 2 1 2 1 2 1 2 1 2 2	On-site use as nonreactant Enclosed 2.91 2 1 Controlled Release NA NA NA NA Open NA NA NA NA On-site preparation of products Enclosed NA NA NA NA Controlled Release NA NA NA NA Open NA NA NA NA	On-site use as nonreactant Enclosed 2.91 2 1 Controlled Release NA NA NA NA Open NA NA NA NA On-site preparation of products Enclosed NA NA NA NA Controlled Release NA NA NA NA Open NA NA NA NA	r	eactant	Controlled Release	NA	NA	NA
itrolled Release NA NA NA NA NA	nonreactant Controlled Release NA NA NA NA NA Open NA NA NA NA NA On-site preparation of products Controlled Release NA NA NA NA NA NA NA NA NA N	Controlled Release			0pen	NA	NA	NA
n NA NA NA	Controlled Release	Controlled Release			Enclosed	2.91	2	1
	On-site preparation of products Controlled Release NA NA NA NA Open NA NA NA NA	On-site preparation of products Controlled Release NA NA NA NA Open NA NA NA NA	11	onreactant	Controlled Release	NA	NA	NA
1	Of products Controlled Release NA NA NA NA NA NA NA NA NA N	of products Controlled Release NA NA NA NA NA NA NA NA NA N			0pen	NA	NA	NA
losed NA NA NA	Controlled ReleaseNANANAOpenNANANA	Controlled ReleaseNANANAOpenNANANA			Enclosed	NA	NA`	NA
trolled Release NA NA NA			U	r products	Controlled Release	NA	<u>NA</u> `	NA
n <u>NA</u> <u>NA</u> <u>NA</u>					0pen	NA	NA	NA
trolled Release NA NA				f products	Controlled Release	NA	<u>NA</u> `	

Labor Category	Descriptive Job Title
Α	Filling Operator
В	NA
c	NANA
D	NA
E	NA .
F	NA NA
G	NA
Н	NA
I	NA
J	NA
v.	

9.04	In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.
<u>CBI</u>	
[_]	Process type Packaging
	Filling
	Station
	Ship to Customer
	•
	τ
[_]	Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come i additional areas not s	ork area(s) shown in question 9.04 that encompass workers who n contact with or be exposed to the listed substance. Add any hown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	Packaging
	Work Area ID	Description of Work Areas and Worker Activities
	1	Filling Operator
	2	NA
	3	NA
	4	NA NA
	5	NA
	6	NA
	7	NA
	8	NA
	9	NA
	10	NA
	Mark (X) this box if yo	u attach a continuation sheet.

}		······				rehouse	
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., dire	ct	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	A	2	Skin Contact	<u> </u>	OL	В	2
	NA	NA NA	NA	·	NA ′	NA	NA
	NA	NA	NA NA		NA	NA	NA
	<u>NA</u>	NA	NA	 .	NA	NA	NA
	NA	NA	NA		NA	NA	NA
	NA	<u>NA</u>	NA		NA	NA	NA
	<u>NA</u>	NA	NA		<u>NA</u>	NA	NA
	NA	NA NA	NA		NA	NA	NA
	NA	NA	NA		NA	NA	NA
	NA	<u>NA</u>	NA		NA	NA	NA
	GC = Gas tempe GU = Gas tempe includes tempe includes SO = Solid	of exposure: (condensible at erature and pre (uncondensible erature and pre udes fumes, vap	ssure) at ambient ssure;	SY = AL = OL = IL =	Sludge or si Aqueous liqu Organic liqu Immiscible i (specify pho 90% water, i	lurry uid uid liquid ases, e.g., 10% toluene)	
	A = 15 min B = Greate exceed C = Greate	utes or less r than 15 minut ing 1 hour r than one hour ing 2 hours	es, but not	D = G e E = G	reater than exceeding 4 l	2 hours, but hours 4 hours, but hours	not

9.07	Weighted Average (egory represented in question 9.06 (TWA) exposure levels and the 15-min estion and complete it separately for	nute peak exposure levels.
<u>CBI</u>			
[_]	Process type	·· Packaging	
	Work area		rehouse
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	A	Data Not Available	Data Not Available
	NA	NA	NA
	NA	NA	NA NA
	NA	NA	NA
	NA	nÀ.	NA NA
	NA	NA NA	NA
	NA	NA	NA NA
	NA	NA	NA
	NA	NA	NA NA
	NA	NA NA	NA NA
	_		
	•		
	r		

11 you	ı monitor worke	r exposur	e to the II	sted substai	nce, compl	iete the Id	oriowing table
Sample	e/Test	Vork Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Record Maintained
Person zone	nal breathing	1	None	None	NA	NA	NA
Genera (air	al work area	NA	NA	NA	NA	NA	NA
Wipe s	amples	NA	NA	NA	NA	NA	NA
Adhesi	ve patches	NA	NA	NA	NA	NA	NA
Blood	samples	NA	NA	NA	NA	NA	NA
Urine	samples	NA	NA	NA	NA	NA	NA
Respir	atory samples	NA	NA	<u>NA</u>	NA	NA	NA
Allerg	y tests	NA	NA	NA	NA	NA	NA
0ther	(specify)						
		NA	NA	NA	NA	NA	NA
Other	(specify)						
Other	(specify)	NA	NA	<u>NA</u>	<u>NA</u>	NA	<u>NA</u>
		NA	NA	NA	<u>NA</u>	NA	NA
A = P B = I C = 0	he following collant industrial nsurance carries SHA consultant ther (specify)	l hygienis er		takes the	monitorin	g samples:	

[_]	Sample Type	Sar	mpling and Analyti	ical Methodolo	ogy
	NA NA		NA		
	· NA		NA		
	NA		NA NA		
	NA		NA		
	NA NA		NA.		
	NA		NA.		
9.10 <u>CBI</u>	If you conduct person specify the following	onal and/or ambient and information for ea	air monitoring for ach equipment type	the listed so used. Averaging	substance,
[_]	Equipment Type ¹	Detection Limit ²	Manufacturer	Time (hr)	Model Number
	NA	NA	NA	NA	<u>NA</u>
	NA	NA	NA NA	NA	NA
	NA NA	NA	NA	NA	NA
	NA	NA NA	NA	NA	NA
	NA	NA	NA	NA	NA
-	Use the following o	odes to designate pe	ersonal air monito	oring equipmen	it types:

]	Test Description	Frequency (weekly, monthly, yearly, etc.)
	NA	NA
	NA	NA
	NA	NA NA
	NA NA	NA NA
	NA NA	NA
		,
	•	
τ		

Pescribe the engineering control to the listed substance. Photoprocess type and work area.	rols that yo tocopy this	u use to reduce or e question and complet	eliminate wor e it separat	ker exposu ely for ea
Process type	Packaging	5		
Work area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Warehouse	
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgrade
Ventilation:				
Local exhaust	N	NA	N	<u>NA</u>
General dilution	Y	Unknown	<u> </u>	NA
Other (specify)				
	NA	NA	<u>NA</u>	NA
Vessel emission controls	N	NA	<u>NA</u>	NA
Mechanical loading or packaging equipment	N	NA	NA	NA
Other (specify)				
ARIANA ARIANA	NA	NA	NA	NA
•				
*				

Work area	Packaging		Warehouse
	ipment or Process Mo		Reduction in Work Exposure Per Year
	NA		NA NA
	NA.		NA
	NA		NA
	NA		NA
•			

9.14	in each work area :	in order to reduce or elimina	ipment that your workers wear or use te their exposure to the listed e it separately for each process type
CBI	and work area.		
[_]	Process type	··· Packaging	
	Work area	•••••	Warehouse
			Wear or
		Equipment Types	Usę (Y/N)
		Respirators	N
		Safety goggles/glasses	Y
		Face shields	
		Coveralls	N
		Bib aprons	<u> </u>
		•	N
		Chemical-resistant gloves	<u> </u>
		Other (specify)	
			NA NA
	•		NA
	τ		

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

9.15	respirators tested, and	use respirators when wee, the work areas when we used, the average used the type and frequence separately for each p	e the respirating, whether or the system of the fit to the fit to the fit the system of th	ors are us not the i	sed, the type sespirators w	of ere fit
CBI						
[_]	Process typ	Packag	ing			
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA
	NA	NA NA	NA	NA	NA	NA
	NA	NA	NA	<u>NA</u>	NA	NA
	QL = Quality QT = Quanti		nate the type o	of fit tes	t:	
[_]	Mark (X) thi	s box if you attach a	continuation s	heet.	•	

CBI	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provquestion and complete it s	to the listed su creas with warning ride worker train	ubstance (e.g. ng signs, insu ning programs,	, restrict en ure worker det etc.). Phot	ntrance only to tection and tocopy this		
[_]	Process type	Packaging					
	Work area		•••••	<u>Wa</u>	rehouse		
	All containers labeled wit	ch hazards and wa	rnings. Empl	oyees informe	ed of		
	hazards and protection rec	quirements.			A Prince		
	Process type Packaging Work area Warehouse						
	Work area	••••••		Warehouse			
	Work area		1-2 Times	3-4 Times			
		Less Than	1-2 Times	3-4 Times Per Day			
	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	Times Per Day		
	. Housekeeping Tasks Sweeping	Less Than Once Per Day	1-2 Times Per Day NA	3-4 Times Per Day NA	Times Per Day		
	Housekeeping Tasks Sweeping Vacuuming	Less Than Once Per Day NA NA	1-2 Times Per Day NA NA	3-4 Times Per Day NA NA	NA NA		
	. Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day NA NA	1-2 Times Per Day NA NA	3-4 Times Per Day NA NA	NA NA		
	Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	Less Than Once Per Day NA NA NA	1-2 Times Per Day NA NA NA	3-4 Times Per Day NA NA NA	NA NA NA		
	. Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day NA NA NA	1-2 Times Per Day NA NA NA	3-4 Times Per Day NA NA NA	NA NA NA		
	Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	Less Than Once Per Day NA NA NA	1-2 Times Per Day NA NA NA	3-4 Times Per Day NA NA NA	NA NA NA		

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained? NOT REQUIRED
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained? <u>Health & Safety Department</u>
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist 1
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
	NOT REQUIRED

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and. thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
<u>CBI</u>	
[_]	Industrial area1
	Urban area 2
	Residential area 3
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10

10.02	Specify the exact location of your is located) in terms of latitude a (UTM) coordinates.	r facility (from cent) and longitude or Unive	ral point where ersal Transvers	process unit e Mercader					
	Latitude	····· –	75	00 , 00					
	Longitude		39 •	20 ′ 00 '					
	UTM coordinates Zone	, Northin	ng <u>NA</u> , Ea	sting NA					
10.03	If you monitor meteorological condithe following information.	If you monitor meteorological conditions in the vicinity of your facility, provide the following information.							
	Average annual precipitation			inches/year					
	Predominant wind direction		NOT REQUIRED						
10.04	4 Indicate the depth to groundwater below your facility. NOT REQUIRED Depth to groundwater								
10.05 CBI	For each on-site activity listed, listed substance to the environmer Y, N, and NA.)								
[_]	On-Site Activity	Envi: Air	ronmental Relea Water	se Land					
	Manufacturing	NA NA	NA	NA					
	Importing	NA	NA NA	NA NA					
	Processing	NA NA	NA NA	NA					
	Otherwise used	NA	NA	NA					
	Product or residual storage	NA NA	NA	NA					
	Disposal	NA	NA	NA					
	Transport	NA NA	NA	NA					
[_]	Mark (X) this box if you attach a c	ontinuation sheet.							

<u>CBI</u>	Provide the following information for the listed of precision for each item. (Refer to the instruant example.)		
[_]	Quantity discharged to the air	NA	kg/yr <u>+</u> NA %
	Quantity discharged in wastewaters	NA	kg/yr ± <u>NA</u> 2
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> <u>NA</u> 2
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> NA 2
	·		

CBI residual treatment block source. Do not include	Stream ID Code as identified in your process block or flow diagram(s), and provide a description of each point raw material and product storage vents, or fugitive emission leaks). Photocopy this question and complete it separately Packaging
Point Source ID Code	Description of Emission Point Source
NA	NA
NA	NA .
NA	NA NA
NA NA	NA
NA	NA
NA	NA
NA	NA .
NA	NA NA
NA	NA
NA	NA NA
•	
τ	
·	

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this

xod

if

attach

Ì	Point Source ID Code	Physical State ¹	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/eve
	<u>NA</u>	NA	NA	NA	NA	<u>NA</u>	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	<u>NA</u>	NA	<u>NA</u>	NA	NA	NA	<u>NA</u>	NA
	NA	NA	NA	<u> </u>	NA	NA	<u>NA</u>	NA_	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	<u>NA</u>	NA	NA	<u>NA</u>	NA
	<u>NA</u>	NA	NA	NA	NA	NA	<u>NA</u>	NA_	NA
	<u>NA</u>	<u>NA</u>	NA	<u>NA</u>	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NS	<u>NA</u>	<u>NA</u>	NA	NA	NA	NA	NA	NA

G = Gas; V = Vapor; P = Particulate; A = Aerosol; 0 = Other (specify)

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

 $^{^4}$ Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

Stack Parameters -- Identify the stack parameters for each Point Source ID Code 10.11 identified in question 10.09 by completing the following table. CBI [-]Stack Point Inner **Emission** Source Diameter Exit Exhaust (at outlet) Temperature Velocity Building
Height(m)
Building
Width(m) Building ID Vent_ Type³ Code Height(m) (°C) (m/sec) NA NA

H = Horizontal

V = Vertical

[_]	Mark (X)	this	box if	you	attach	a	continuation	n sheet.

¹Height of attached or adjacent building

²Width of attached or adjacent building

³Use the following codes to designate vent type:

10.12 CBI	If the listed substance is emitted in particulate form, indicate the particle size distribution for each Point Source ID Code identified in question 10.09. Photocopy this question and complete it separately for each emission point source.					
[_]	Point source ID code	NA				
٠	Size Range (microns)	Mass Fraction (% ± % precision)				
	< 1	NA				
	≥ 1 to < 10	NA				
	≥ 10 to < 30	NA				
	≥ 30 to < 50	NA				
	≥ 50 to < 100	NA				
	≥ 100 to < 500	NA				
	≥ 500	NA				
		Total = 100%				
	•					

PART	C	FUCTTIVI	E EMISSIONS

10.13	Equipment Leaks — Complete the following table by providing the number of equipmen types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.											
[_]	Process type	Packaging	7.44	·								
	Percentage of time per year type	that the li	sted sub	stance is	exposed	to this p	rocess					
		Number	of Compo	nents in	Service b	y Weight I cess Strea	Percent					
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%					
	Pump seals ¹				<u> </u>	<u> </u>						
	Packed	NA	NA	_NA	NA	NA	NA					
	Mechanical	NA	NA	NA	NA	NA	NA					
	Double mechanical ²	NA	NA	NA	NA	NA	NA					
	Compressor seals ¹	NA	NA	NA	NA	NA	NA					
	Flanges	NA	NA	NA	NA NA	NA	NA.					
	Valves											
	Gas ³	NA	NA	NA	NA	NA	NA					
	Liquid	NA	NA	NA	NA	NA	NA					
	Pressure relief devices (Gas or vapor only)	NA	NA	NA	NA	NA	NA					
	Sample connections											
	Gas	NA	NA	<u>NA</u>	<u>NA</u>	NA_	<u>NA</u>					
	Liquid	NA	NA_	NA	<u>NA</u>	NA_	NA					
	Open-ended lines ⁵ (e.g., purge, vent)											
	Gas	NA	<u>NA</u>	NA_	NA_	NA	NA					
	Liquid	NA	NA	NA	NA	NA	NA					
	List the number of pump and compressors	d compressor	seals, r	ather tha	n the num	ber of pu	mps or					
10.13	continued on next page											
<u></u>	Mark (X) this box if you atta	ach a continu	uation sh	eet.	.,-							

10.13	(continued)										
	greater than the pump str will detect failure of the	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively									
	³ Conditions existing in the valve during normal operation										
		⁴ Report all pressure relief devices in service, including those equipped with									
	⁵ Lines closed during norma operations	al operation that wou	uld be used during	maintenance							
10.14 <u>CBI</u>	Pressure Relief Devices with pressure relief devices in devices in service are contenter "None" under column	dentified in 10.13 to atrolled. If a press	o indicate which p	ressure relief							
,	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel	c. Control Device	d. Estimated Control Efficiency ²							
	NA	NA	NA NA	NA							
	NA	NA	NA NA	<u>NA</u>							
	NA NA	NA	NA	NA							
	NA	NA	NA	NA							
	NA	NA	NA	NA							
	NA	NA	NA	NA							
	NA NA	NA	NA	NA							
	NA	NA	NA	NA							
	NA	NA	NA	NA							
	NA	NA NA NA tion 10.13 and recor f Components in Serv 0%, 11-25%, etc.) efficiency of 100 pe ormal operating cond	NA NA NA d the percent rangice by Weight Percent for equipment itions. The EPA a	NA NA Re given under cent of Listed at leaks controls a controls signs a control signs a co							

Process type		• • • • • • • • • • • • • • • • • • • •	Packag	ing	
Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device		Repairs Initiated (days after detection)	Repairs Completed (days afte initiated)
Pump seals					
Packed	NA	NA	ΝA	NA	NA
Mechanical	NA	NA NA	NA	NA NA	NA
Double mechanical	NA	NA NA	NA	NA	NA
Compressor seals	NA	NA	NA	NA	NA
Flanges	NA	NA	NA	NA	NA
Valves					
Gas	NA	NA	NA	NA	NA
Liquid	NA NA	NA	NA	NA	NA
Pressure relief devices (gas or vapor only)	NA	NA	NA	NA	NA
Sample connections					
Gas	NA	NA	NA	NA	NA
Liquid	NA	NA	NA	NA	<u>NA</u>
Open-ended lines					
Gas	NA	NA	NA	NA	NA
Liquid	NA	NA	NA	NA	NA

C = Calculations S = Sampling

_					
PART 1	7 N	∩N_R∩	ITTNE	RELEA	SES

10.23	Indicate the date and time when the release occurred and when the release ceas	
	was stopped. If there were more than six releases, attach a continuation shee	t and
	list all releases.	

Release	Date Started	Time (am/pm)		Date Stopped	Time (am/pm)
1	NA	NA		NA	NA
2	NA	NA		NA	NA
3	NA.	NA		NA	NA
4	NA	NA	,	NA	NA
5	NA	<u>NA</u>		NA	NA
6	NA	NA		<u>NA</u>	NA

10.24 Specify the weather conditions at the time of each release.

Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
	NOT REC	QUIRED		
			- Market	

	Wind Speed (km/hr)	(km/hr) Direction	Wind Speed Wind Humidity (km/hr) Direction (%) NOT REQUIRED	(km/hr) Direction (%) (°C)

|--|--|

APPENDIX I: List of Continuation Sheets

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number (1)	Continuation Sheet Page Numbers (2)
NA	NA NA
NA	NA
NA	NA NA
NA NA	NA
NA NA	NA
NA	NA NA
NA	NA NA
NA	NA
NA NA	NA
NA	NA NA
NA	NA NA
NA	NA NA
NA NA	NA
NA NA	NA
NA	NA
NA	NA
NA	NA
NA NA	NA NA
NA	NA